SONY | BRAVIA

LCD Digital Color TV

XBR

Sony Customer Support

U.S.A.: www.sony.com/tvsupport
Canada: www.sony.ca/support

United States   Canada
1.800.222.SONY   1.877.899.SONY

Please Do Not Return
the Product to the Store

KDL-52XBR10
KDL-46XBR10
MBT-WZ5

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Owner's Record

The model, electric ratings, serial numbers and the date of manufacture are in the following locations:
Monitor: rear of the monitor at the bottom left
Media receiver: on the underside and rear
Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this unit.

Monitor
Model Name

_____

Serial No.

_____

Media receiver
Model Name

_____

Serial No.

_____

CAUTION

To prevent electric shock and blade exposure, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted.

❑ Operate the unit only on 120 V AC.
❑ Avoid operating the unit at temperatures below 41°F (5°C).

Wireless Function of the Unit

❑ The picture may be affected depending on the installation environment or setup of the monitor and media receiver (page 20).
❑ It may take time to transmit pictures depending on the types of signal, fast motion, such as game pictures, etc.
❑ If pictures from a PC or still images are displayed, flickering or blurring may occur.
❑ This unit can be used only in combination of the supplied monitor and media receiver.
❑ Do not operate this unit near medical equipment (pacemaker, etc.), as malfunction of the medical equipment may result.
❑ Although this unit transmits/receives scrambled signals, be careful of unauthorised interception. We cannot be responsible for any trouble as a result.

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Fergason Patent Properties, LLC:
U.S. Patent No. 5,717,422
U.S. Patent No. 6,816,141

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Your BRAVIA TV is ENERGY STAR® qualified in the "Home" mode.
It meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and Department of Energy. ENERGY STAR is a joint program of these government agencies, designed to promote energy efficient products and practices.

Changes to certain features, settings, and functionalities of this TV (i.e. TV Guide, Picture/Sound, Light Sensor, Power Savings) can increase or change the power consumption.

Depending upon such changed settings, the power consumption may exceed the limits required for the ENERGY STAR qualification in the "Home" mode.

This manual is for the 46 and 52 inch BRAVIA KDL-XBR10 series models with screen size measured diagonally.

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Contents

Welcome to the World of BRAVIA® HDTV

Thank you for purchasing this Sony BRAVIA® high-definition television. Use the documentation listed below to get the most out of your unit.

Safety Booklet
Provides precautionary measures to keep you and your unit safe. Read this information prior to setting up your unit.

Operating Instructions
Provides general unit operation information.

Quick Setup Guide
Provides unit setup information, illustrates sample optional equipment connection diagrams, and highlights TV features.

Reference Book
Offers the most complete unit operation information available for your unit and presents advanced customization details. Access it at www.sony.com/referencebook.

The unit operation information above has been designed in an eco-friendly manner to reduce the consumption of natural resources.

3

Introducing Your BRAVIA® TV

Experiencing Stunning HD with Your BRAVIA TV

To experience the stunning detail of your new **BRAVIA** TV, you need access to high-definition (HD) programming. Your **BRAVIA** TV can receive and display HD programming from:

- Over-the-air broadcasting via HD-quality antenna
- HD cable subscription
- HD satellite subscription
- Blu-ray Disc™ player or other HD compatible external equipment

Contact your cable, satellite or HD service provider for information on upgrading to HD programming.

The Four Steps to a Full HD Experience

Set, Source, Sound, and Setup

Along with your **BRAVIA** TV **set**, a complete HD system requires a **source** of HD programming, an HD **sound** system, and a proper connection **setup**. Refer to the Quick Setup Guide, enclosed separately, for connecting other optional equipment.

You can enjoy crisp, clear images, smooth movement, and high-impact visuals from 1080 HD signals as shown here.

When you compare a high-definition signal to a standard definition signal, you will notice a big difference in picture quality. If black bars appear as shown here, press **WIDE** on the remote control to fill the screen.

TV Feature Highlights

Your **BRAVIA** TV is equipped with the latest in TV technology.

➢ **Broadband Internet Connectivity: BRAVIA** Internet Video brings videos, movies and much more from the Internet to your unit (page 35). **BRAVIA** Internet Widgets allow you to access local weather, news, and much more. Displayed here is **Widgets** (page 39).

➢ **Digital Media Accessibility:** Use the **Photo**, **Music**, and **Video** Category icons to access photo, music, and video files from DLNA Certified™ networked equipment or Sony USB equipment. Displayed here is **Photo** USB (page 36).

➢ **Central Location for Your Favorite Items:** The **Favorites** feature centralizes your favorite **BRAVIA** Internet Video and **Widgets** items, **Photo**, **Music**, **Video** content, **TV** channels, **External Inputs**, and **Background TV** themes for quick and easy access (page 41).

➢ **Channel Programming Information: TV Guide On Screen**® provides TV programming information (page 42).

➢ **TV Home Menu: XMB**™ **(XrossMediaBar)** unit menu provides you access to unit settings, photo, music, video, TV channel listings, and more (page 32).


5

Getting Started

Setting Up Your Monitor

This monitor is packaged with a detached Table-Top Stand so you can mount your monitor to a wall right away. If you are not mounting the monitor to a wall, you will need to attach the Table-Top Stand. You will need a Phillips screwdriver and the supplied screws to complete the task. Look for the attachment instructions provided with the unit.

Be sure to consider the following while setting up your monitor:

- Disconnect all cables when carrying the monitor.

- Carry the monitor with the adequate number of people; larger size monitors require two or more people.

- Correct hand placement while carrying the monitor is very important for safety and to avoid damage.
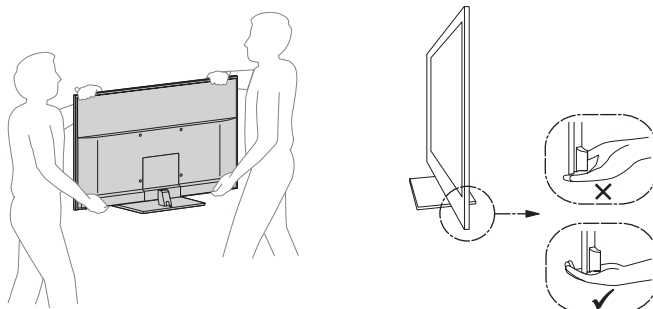
- Ensure your monitor has adequate ventilation, see page 17.

- For best picture quality, do not expose the screen to direct illumination or sunlight.

- Avoid installing the monitor in a room with reflective wall and floor materials.

- Avoid moving the monitor from a cold area to a warm area. Sudden room temperature changes may cause moisture condensation. This may cause the monitor to show poor picture and/or poor color. Should this occur, allow moisture to evaporate completely before powering the monitor on.

- Read the supplied Safety Booklet for additional safety information.
- When cable connection is completed, be sure to secure the monitor to a stable surface or mount it to a wall. The designated Sony wall-mount bracket model and TV stand model name(s) are available under the "Other Information" section of Operating Instructions. For details on securing the monitor, see page 18.
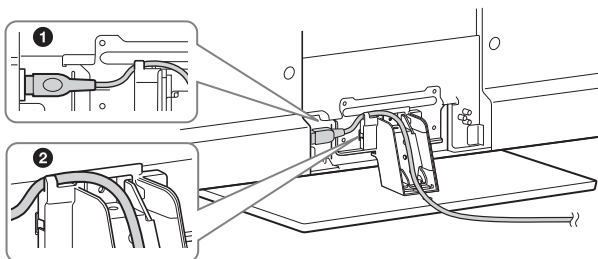
Connecting the AC Power Cord

Make sure all connections are set before connecting the AC power cord.
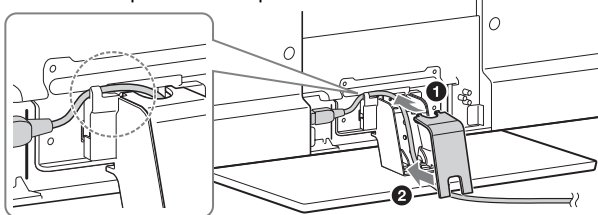
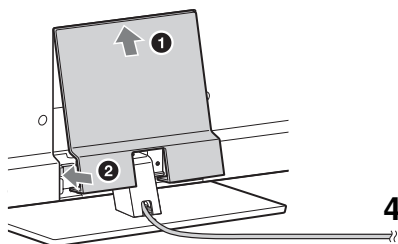## Monitor
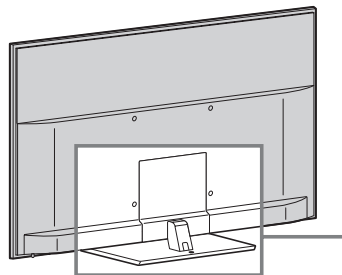
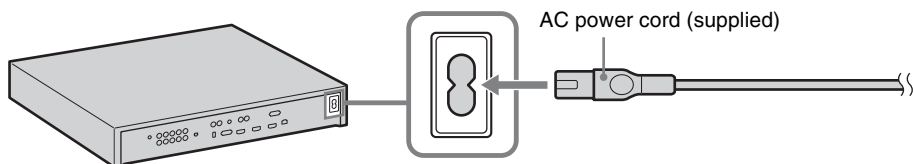**1 Connect the supplied AC power cord to the monitor.**

❶

❷

2 Attach the stand cover.

Do not pinch the AC power cord.

❶
❷

3 Attach the terminal cover.

❶
❷

4

Media receiver

AC power cord (supplied)

7

Using a Wall-Mount Bracket

All models can be mounted to a wall using the Wall-Mount Bracket (not supplied) out of the box as packaged.

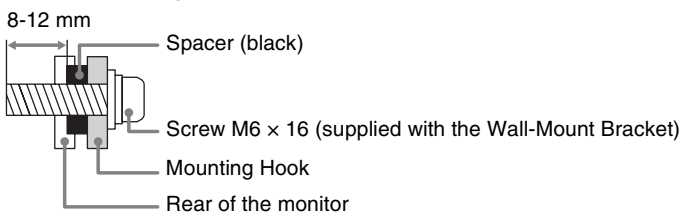Prepare the monitor for the Wall-Mount Bracket before making cable connections.

Sony strongly recommends that you use the Wall-Mount Bracket model designed for your monitor (see page 49) and that wall-mounting of your monitor should be performed by a Sony dealer or licensed contractor.

- Follow the instruction guide provided with the Wall-Mount Bracket for your model. You may also need to refer to the online Reference Book for additional information for your unit model. Sufficient expertise is required in installing this monitor, especially to determine the strength of the wall for withstanding the monitor's weight.

- Be sure to use the screws supplied with the Wall-Mount Bracket when attaching the mounting hooks to the monitor. (Do not use the screws that are intended for the Table-Top Stand attachment.)
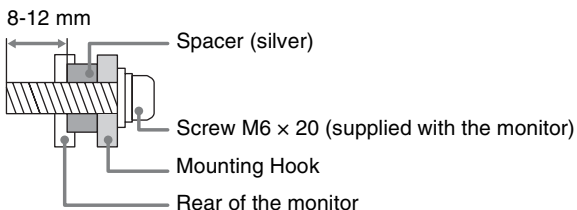 The supplied M6 screws are designed so that they are 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook.
  Use of screws other than those supplied with the bracket may result in internal damage to the monitor or cause it to fall, etc.

  When attaching to the Wall-Mount Bracket

  8-12 mm
  — Spacer (black)
  — Screw M6 × 16 (supplied with the Wall-Mount Bracket)
  — Mounting Hook
  — Rear of the monitor

  When attaching to the Floor Stand

  8-12 mm
  — Spacer (silver)
  — Screw M6 × 20 (supplied with the monitor)
  — Mounting Hook
  — Rear of the monitor

- Be sure to store the unused screws and Table-Top Stand in a safe place until you are ready to attach the Table-Top Stand. Keep the screws away from small children. When you are using the Table-Top Stand, be sure to read page 19.

8

Locating Inputs and Outputs

Front of media receiver
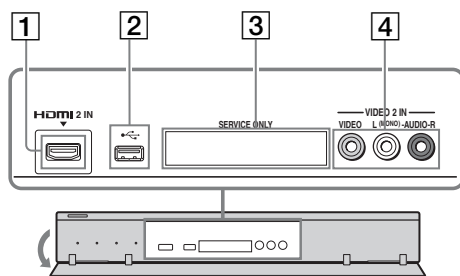
Rear of media receiver
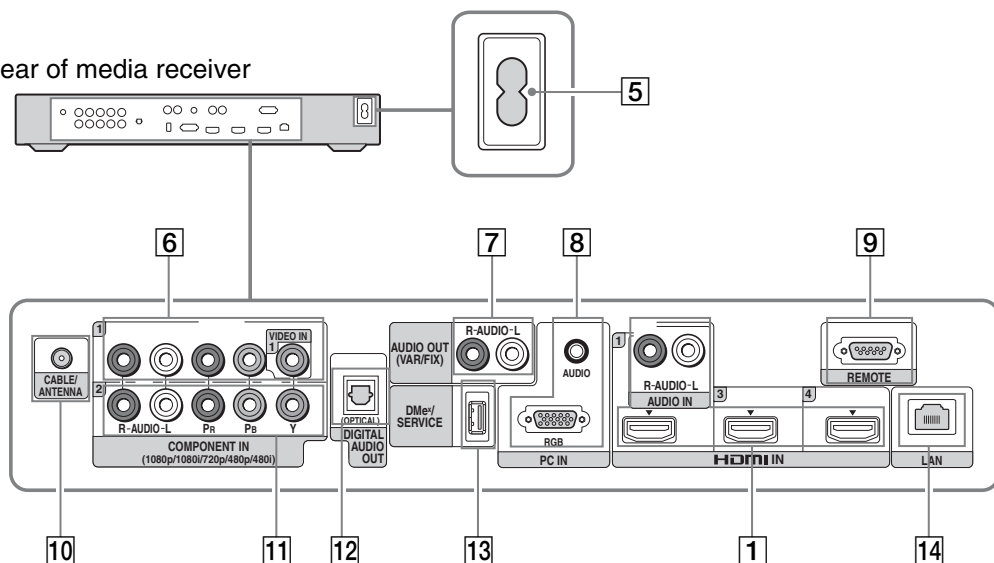
Rear of monitor

• An HDMI or Component video (YPBPR) connection is required to view 480i, 480p, 720p, 1080i and 1080p video formats. The 1080/24p video format is available only with HDMI connection. This unit displays all video input signals in a resolution of 1,920 dots × 1,080 lines.

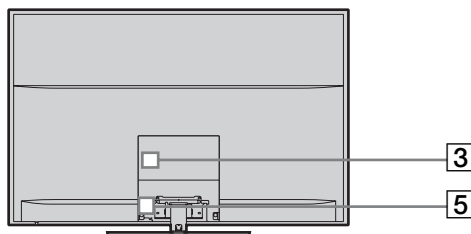| Item		Description
1	**HDMI IN 1/2/3/4 AUDIO IN R-AUDIO-L**	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this unit and any HDMI-equipped audio/video equipment, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus digital audio. Be sure to use only an HDMI cable that bears the HDMI logo. Use the HDMI IN 1 port when connecting DVI equipment with a DVI-to-HDMI cable or adapter (not supplied). Equipment using a DVI connection also requires an additional audio connection using an audio cable connected to AUDIO (L/R).
2	**USB**	Connects to USB equipment to access photo, music, and video files.
3	**SERVICE ONLY**	This port is for service only.
4	**VIDEO 2 IN L (MONO)-AUDIO-R**	Connects to the composite video and audio output ports on your A/V equipment. If you have mono equipment, connect its audio output port to the media receiver's L (MONO) audio input port.
5	**AC IN**	Connects to your power source. Connect the supplied power cord to AC IN and the nearest wall outlet.
6	**VIDEO IN 1/ COMPONENT IN 1 (1080p/ 1080i/720p/ 480p/480i)/ R-AUDIO-L**	This input port can be used as composite video input (VIDEO 1) or as component video input (COMPONENT 1). For composite use, connect the yellow jack to Y for video and use audio (L/R) for audio signals. For component connection, use Y, P_B, P_R for video signals and also connect the audio (L/R) for audio signals. By default, this unit will automatically detect and switch between VIDEO 1 and COMPONENT 1. To manually set the input type, press **HOME**, select **Settings**, then **Channels & Inputs**, then select **Video/Component 1 Selection**.
7	**AUDIO OUT (VAR/FIX) R-AUDIO-L**	Connects to the left and right audio input jacks of your analog audio equipment. You can use these outputs to listen to your unit's audio through your stereo system.
8	**PC IN (RGB/AUDIO)**	Connects to a personal computer's video and audio output connector. Can also be connected to other analog RGB equipment. For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If an adapter is used, connect the adapter to the computer before connecting the HD15-HD15 cable. You may need to adjust the unit settings or your PC's resolution and timing (see page 14).
9	**REMOTE**	This jack is for receiving the external control signal.
10	**CABLE/ ANTENNA**	RF input that connects to your cable or over-the-air antenna.
11	**COMPONENT IN 2**	Component video provides better picture quality than the composite video. Audio connection is required for the COMPONENT IN ports, connect audio (L/R).
12	**DIGITAL AUDIO OUT (OPTICAL)**	Connects to the optical audio input of digital audio equipment that is PCM/Dolby* Digital compatible.
13	**DMe^X/SERVICE**	This USB port is only for service unless you are connecting an optional **BRAVIA** Link module (DMe^X).
14	**LAN**	Connects to an existing network using an Ethernet cable. Be sure to complete **Network Setup** (page 21).

Getting Started

* Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Connecting the Unit

Cable System or VHF/UHF Antenna System

You can enjoy high-definition and standard-definition digital programming (if available in your area) along with standard-definition analog programming.
This unit is capable of receiving unscrambled digital programming for both cable (QAM and 8VSB) and external VHF/UHF antenna (ATSC).

Cable or VHF/UHF (or VHF only)

75-ohm coaxial cable → Rear of media receiver
CABLE/
ANTENNA

• It is strongly recommended that you connect the CABLE/ANTENNA input using a 75-ohm coaxial cable to receive optimum picture quality. A 300-ohm twin lead cable can easily be affected by radio frequency interference, resulting in signal degradation.

Cable System and VHF/UHF Antenna System

Use an optional A-B RF switch (not supplied) to switch between the cable and over-the-air antenna programming, as shown here.
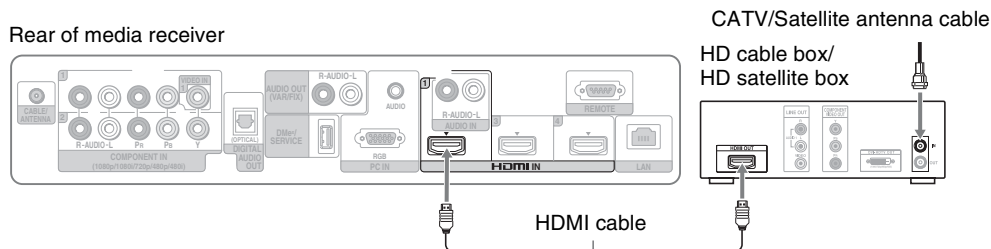Set the **Cable/Antenna** setting found under the Settings on the **XMB**TM to
Cable or **Antenna** for the type of input signal you choose.

A-B RF Switch

Cable → A
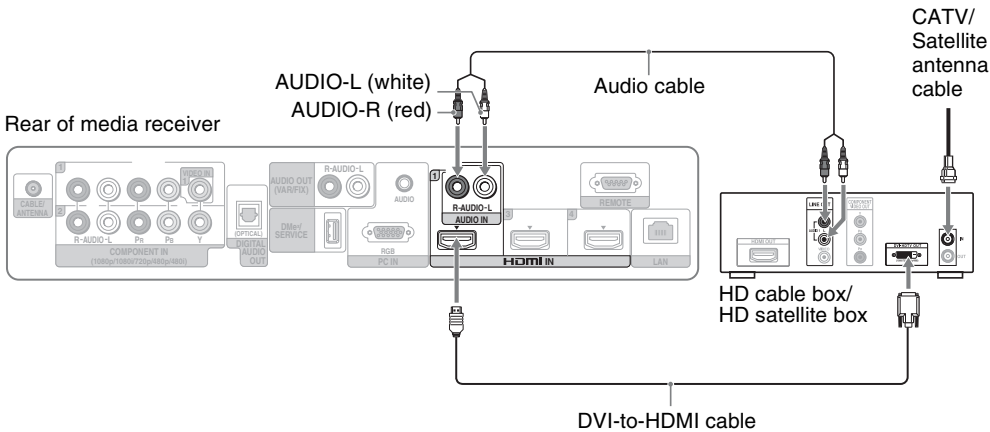Antenna → B

Rear of
media
receiver
CABLE/
ANTENNA
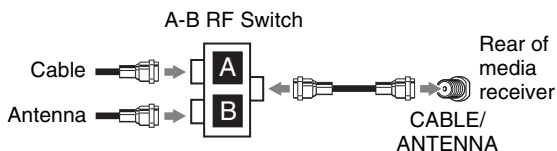
HD Cable Box/HD Satellite Box

You can enjoy high-definition programming by subscribing to a high-definition service or a high-definition satellite service. For the best possible picture, make sure you connect this equipment to your media receiver via the HDMI or component video (with audio) input located on the rear of the media receiver.

Shown with HDMI Connection

CATV/Satellite antenna cable

Rear of media receiver

HD cable box/
HD satellite box

HDMI cable

Shown with DVI Connection

CATV/
Satellite
antenna
cable

AUDIO-L (white)
AUDIO-R (red)
Audio cable

Rear of media receiver

HD cable box/
HD satellite box

DVI-to-HDMI cable
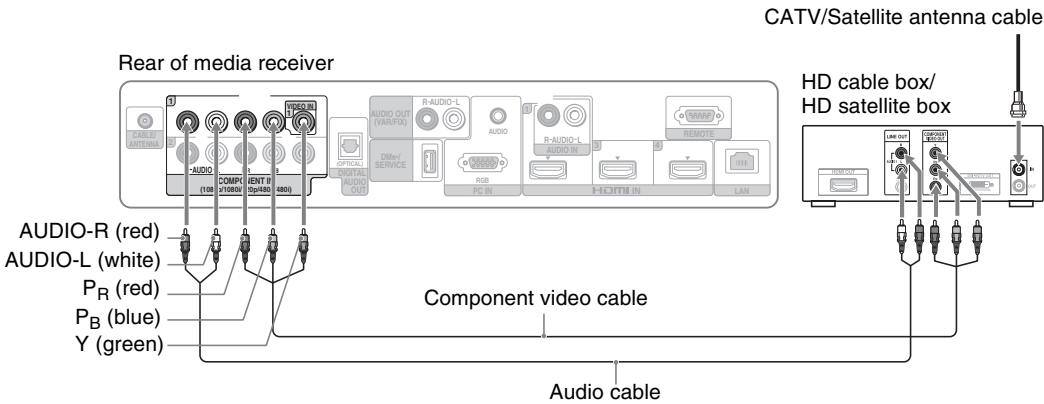
• If your equipment has a DVI output and not an HDMI output, connect the DVI output to the
HDMI IN 1 (with DVI-to-HDMI cable or adapter) and connect the audio output to the AUDIO
IN (L/R) of HDMI IN 1.

Shown with Component Connection

CATV/Satellite antenna cable

Rear of media receiver

HD cable box/
HD satellite box

AUDIO-R (red)
AUDIO-L (white)
P_R (red)
P_B (blue)
Y (green)

Component video cable

Audio cable

Shown with PC connection

Use this unit as a monitor for your PC by connecting an HD15-HD15 cable connection as shown below.

This unit can also be connected to a PC with a DVI or HDMI output. (Refer to the supplied Quick Setup Guide.)

Rear of media receiver

HD15-HD15 cable (analog RGB)

Audio cable (stereo mini plugs)
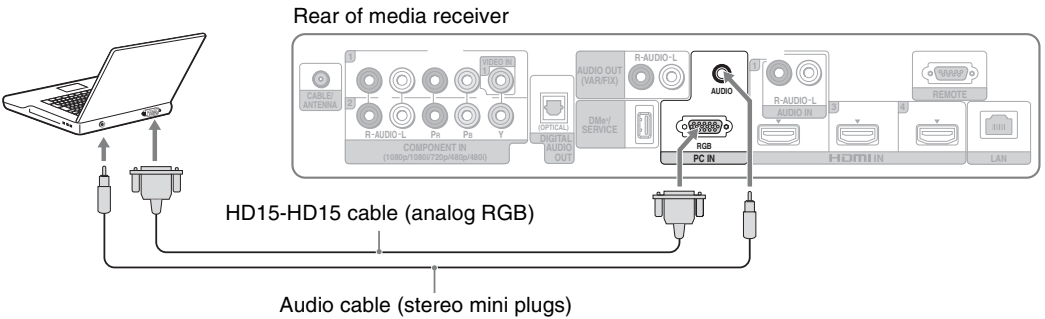
PC Input Signal Reference Chart

After connecting the PC to the unit, set the output signal from your PC according to the supported resolutions and timings indicated below.

Supported resolutions				Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
Signal	Horizontal (Pixel)	×	Vertical (Line)			
VGA	640	×	480	31.5	60	VGA
SVGA	800	×	600	37.9	60	VESA Guidelines
XGA	1,024	×	768	48.4	60	VESA Guidelines
WXGA	1,280	×	768	47.4	60	VESA
	1,280	×	768	47.8	60	VESA
	1,360	×	768	47.7	60	VESA
SXGA	1,280	×	1,024	64.0	60	VESA
HDTV*	1,920	×	1,080	67.5	60	CEA-861*

✐

• This unit's PC input does not support Sync on Green or Composite Sync.
• This unit's PC VGA input does not support interlaced signals.
• For the best picture quality, it is recommended to use the signals in the above chart. In plug and play, signals with a 60 Hz vertical frequency will be detected automatically. (PC reboot may be necessary.)
* The 1080p timing when applied to the HDMI input will be treated as a video timing and not PC timing. This affects **Picture** settings and **Wide Mode** settings. To view PC content set **Scene Select** to **Graphics**, **Wide Mode** to **Full**, and **Display Area** to **Full Pixel**.

🔦

• Connect the PC IN jack to the PC using an HD15-HD15 cable with ferrite core (analog RGB) and audio cable (see page 11).
• The unit enters the standby mode automatically when the PC is connected to the unit and no signal has been output from the PC for more than 30 seconds, see the online Reference Book for details.

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Connecting Internet & DLNA Certified™ Networks

Connect an Ethernet cable from your home network to the LAN input of your unit to enjoy **BRAVIA** Internet features and/or connect to DLNA Certified™ media servers, see page 36 to learn more about these features.
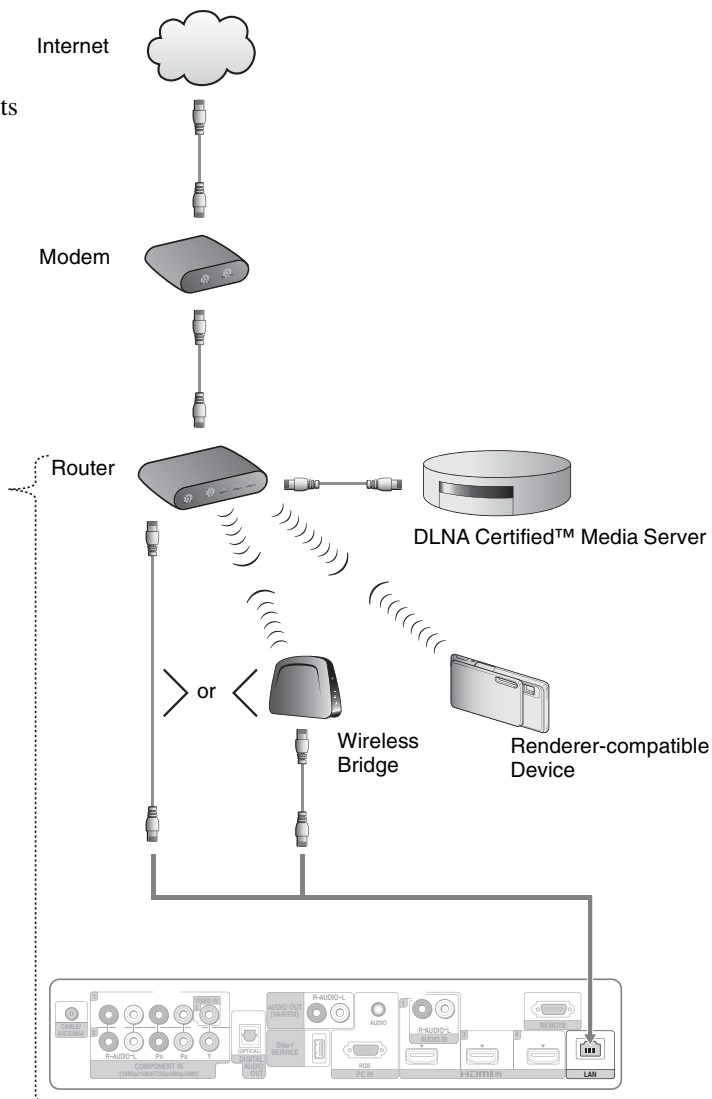
Sample Network Connection Diagram

Internet Features
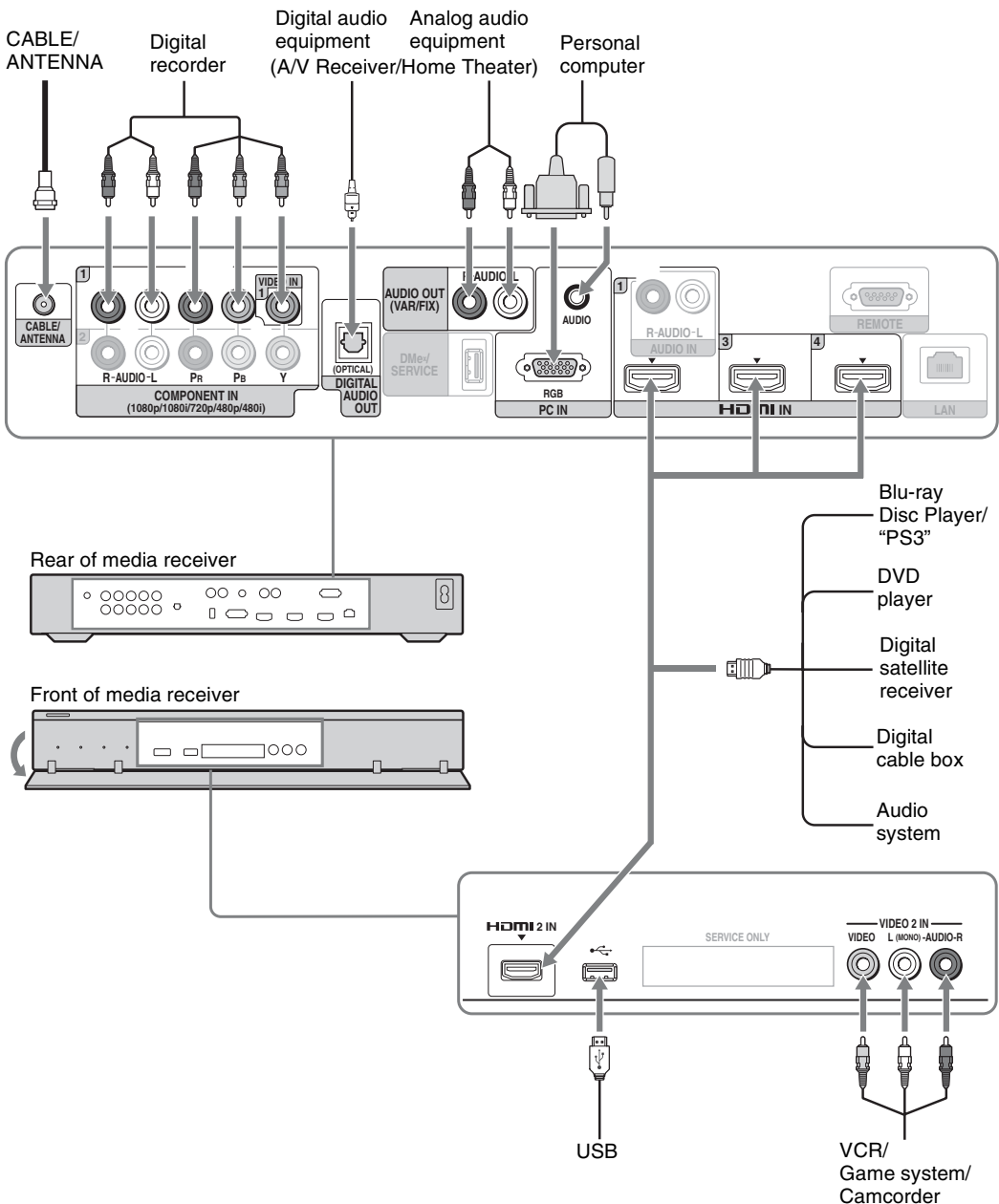• **BRAVIA** Internet Video
• **BRAVIA** Internet Widgets

Internet

Modem

DLNA Certified™ Media Player or Sony USB Equipment Features
• Photo
• Music
• Video

Router

DLNA Certified™ Media Server

or

Wireless Bridge

Renderer-compatible Device

• For more information about compatible wireless bridges, visit https://internet.sony.tv
• Refer to your DLNA Certified equipment's operating instructions for setup and connection information.

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Connecting Other Equipment

CABLE/ANTENNA

Digital recorder

Digital audio equipment (A/V Receiver/Home Theater)

Analog audio equipment

Personal computer

Rear of media receiver

Front of media receiver

Blu-ray Disc Player/"PS3"

DVD player

Digital satellite receiver

Digital cable box

Audio system

USB

VCR/Game system/Camcorder

- Refer to the Quick Setup Guide (supplied) when connecting other equipment to your unit.
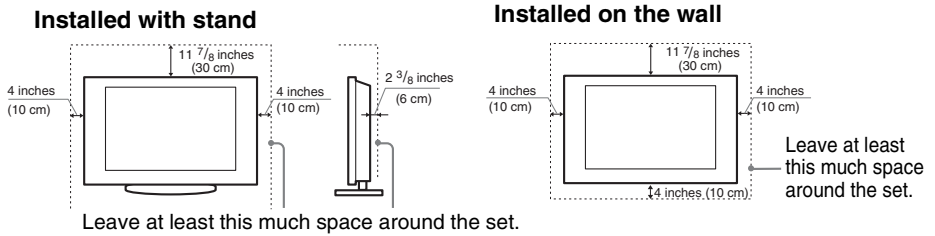
16

Removing the Terminal Cover for Monitor
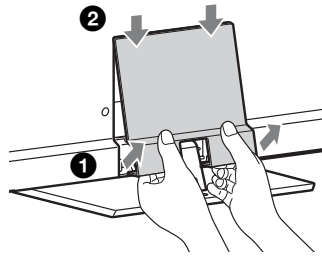
Installing the Unit Against a Wall or Enclosed Area

Make sure that your unit has adequate ventilation. Allow enough space around the unit as shown below. Avoid operating the unit at temperatures below 41 °F (5 °C).
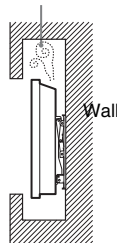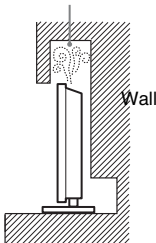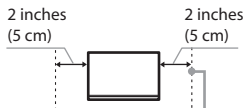
Monitor

Installed with stand

11 $7/8$ inches (30 cm)

4 inches (10 cm)

4 inches (10 cm)

2 $3/8$ inches (6 cm)

Installed on the wall

11 $7/8$ inches (30 cm)

4 inches (10 cm)

4 inches (10 cm)

Leave at least this much space around the set.

14 inches (10 cm)

Leave at least this much space around the set.

Never install the monitor as follows:

Air circulation is blocked.

Air circulation is blocked.

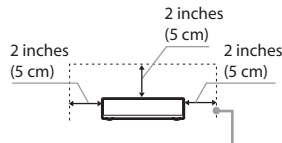Wall

Wall

Media receiver

Top

Front

2 inches (5 cm)

2 inches (5 cm)

2 inches (5 cm)

2 inches (5 cm)

2 inches (5 cm)

2 inches (5 cm)

Leave at least this much space around the set.

• Inadequate ventilation can lead to overheating of the unit and may cause unit damage or cause a fire.

17

Securing the Monitor

⚠ Sony strongly recommends taking measures to prevent the monitor from toppling over. Unsecured monitors may topple and result in property damage, serious bodily injury or even death.

Preventing the Monitor from Toppling

❑ Secure the monitor to a wall and/or stand.
❑ Do not allow children to play or climb on furniture and monitor.
❑ Avoid placing or hanging items on the monitor.
❑ Never install the monitor on:
   • slippery, unstable and/or uneven surfaces.
   • furniture that can easily be used as steps, such as a chest of drawers.
❑ Install the monitor where it cannot be pulled, pushed, or knocked over.
❑ Route all AC power cords and connecting cables so that they are not accessible to curious children.

Recommended Measures to Secure the Monitor

Consider the following measures when securing your monitor to a TV stand (not supplied).

1 Secure the stand for the monitor.

Make sure the TV stand can adequately support the weight of the monitor. Use two angle braces (not supplied) to secure the stand.
For each angle brace use the appropriate hardware to:
• attach one side of the angle brace to the wall stud.

• attach the other side to the TV stand.
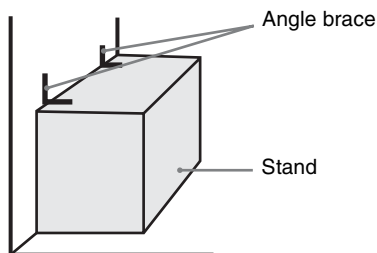
2 Secure the monitor to the stand.

Use the optional hardware listed below (not supplied):
- M4 × 12 machine screw (screwed into the monitor's Table-Top Stand).
- A screw or similar (attach it to the TV stand).
- Rope or chain (strong enough to support the weight of the monitor). Make sure that there is no excess slack in the rope or chain.

An alternative way to secure the monitor is with an optional Sony Support Belt Kit.

M4 × 12 machine screw

Screw

Screw hole on the Table-Top Stand
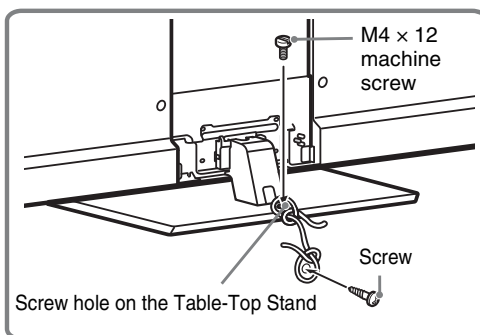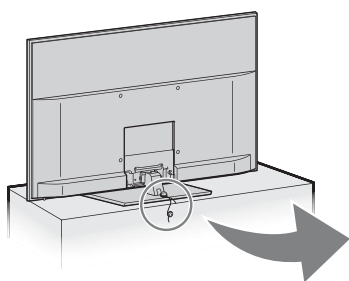
3 Anchor the monitor to the wall.

Remove two screws from the top-most wall-mount holes.
Use the hardware listed below (not supplied):
- Two M6 × 8 mm anchor bolts (screw into the top-most wall-mount holes located on the rear of the monitor).
- Rope or chain (attach to one M6 anchor bolt).
- Wall-anchor (attach to the wall stud) strong enough to support the weight of the monitor (pass the rope through the wall-anchor, then attach to the other M6 anchor bolt).

Anchor bolts

Wall-anchor

Wall-mount holes

Rope or chain
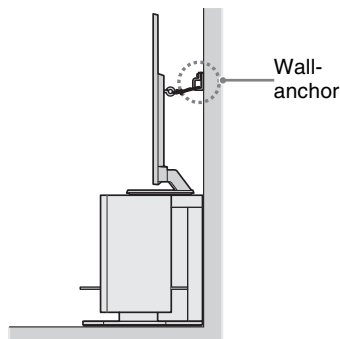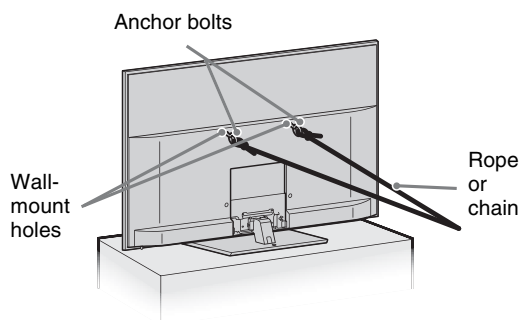
- Contact Sony Customer Support to obtain the optional Support Belt Kit by providing your monitor model name.
 For United States call: 1-800-488-7669 or visit: www.sony.com/accessories
 For Canada call: 1-877-899-7669
- Measure 2 provides minimal protection against the monitor toppling over. For further protection, follow all three measures recommended above.

19

Establishing the Wireless Communication Between the Monitor and Media Receiver

1 Press either **POWER** on the unit or **TV POWER** on the remote control to turn on the unit power.

POWER button

Media receiver

POWER button
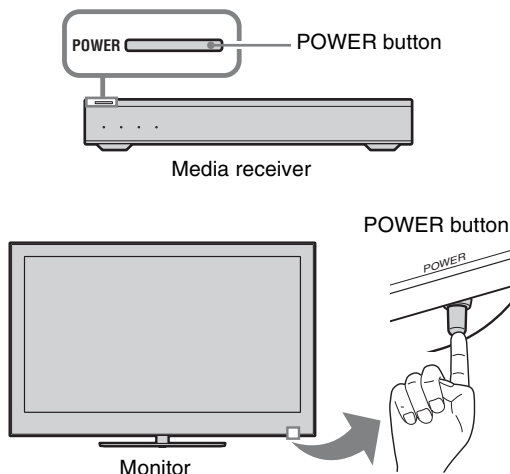
Monitor

2 Check the LINK indicator on the media receiver.
If wireless communication between the media receiver and monitor is established, this indicator lights up.

LINK indicator
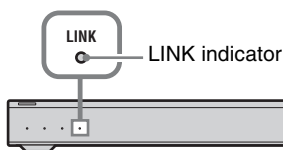
- Refer to the supplied Quick Setup Guide for the communication range of this unit.
- The monitor and media receiver should be placed in the same room.
- Install the media receiver between 20 inches (50 cm) and 33 feet (10 m) away from the monitor.
- Make sure that no objects are blocking the path between the monitor and media receiver. Otherwise the picture quality may be affected.
- Rearrange the installation position of the monitor and media receiver in case of fuzzy picture.
- Do not place media receiver in a metallic rack.
- Do not use two or more units at the same time in an area of radio interference.
- When the screen does not display properly, check if the **Link Level** in the **Settings/Product Support/Contact Sony** screen is **Medium** or **High**.

Running Initial Setup

The **Initial Setup** screen appears when you turn on the unit for the first time.

1 Complete your cable connections before proceeding with the **Initial Setup** (refer to the Quick Setup Guide and the online Reference Book for additional information).

2 Use the following remote control buttons to navigate through the **Initial Setup**.
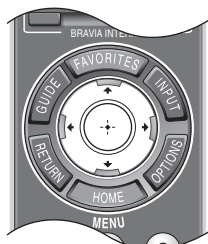
♦/♦ **button:** Allows you to highlight options where applicable.

⊕ **button:** Allows you to select the highlighted option.

♦ **button:** Allows you to move back to the previous screen, where applicable.

♦ **button:** Allows you to move to the next screen, where applicable.

3 Select the language for the on-screen display (OSD) text.
4 Select your viewing environment. **Home** mode sets the monitor display to settings optimized for home viewing (this setting is ENERGY STAR compliant). **Retail** mode changes the display settings to a default more appropriate for a store environment.
5 Select how your monitor is positioned.
6 Select your country and enter your ZIP or Postal code.
7 Set the clock to the current date and time.
8 Select **Continue** to scan for available channels and enable the **TV Guide On Screen**® feature. If you receive channels from a cable box or satellite receiver and do not wish to use the unit's built-in tuner, select **Skip**. Selecting **Skip** will disable the **TV Guide On Screen** feature, which is only available when the unit's tuner is used.
9 To benefit from the network features included on this unit, connect to your existing home network (see page 15). Follow the instructions on the screen to complete **Network Setup**, or select **Skip** to complete it at a later time (optional). Refer to the online Reference Book for more details.
**Initial Setup** is complete. You can now begin using your new unit.

- Enabling the **TV Guide On Screen** feature will increase the amount of time the unit is in Download Acquisition Mode (DAM); see page 50 and 51.
- For more information on **TV Guide On Screen**, see page 42.
- If the language that you selected in the **Language** setting is available from the broadcaster as an **Alternate Audio** language, your unit will automatically switch to the matching language with the **Alternate Audio** feature. To change the audio settings, access the **Alternate Audio** menu by pressing **OPTIONS** on the remote control when an alternate audio stream is available from the broadcaster. **Alternate Audio** is only available for digital programs (see the online Reference Book).
- To complete **Network Setup** at a later time, access the **XMB**ᴛᴍ and select the **Network** icon on the **Settings** menu. Then select **Network Setup**.

Initial Setup

Welcome! Please select a language.
¡Bienvenido! Seleccione el idioma.
Bienvenue! Sélectionner la langue.

English
Español
Français

Continue Choose

21

Operating the TV

Using the Remote Control

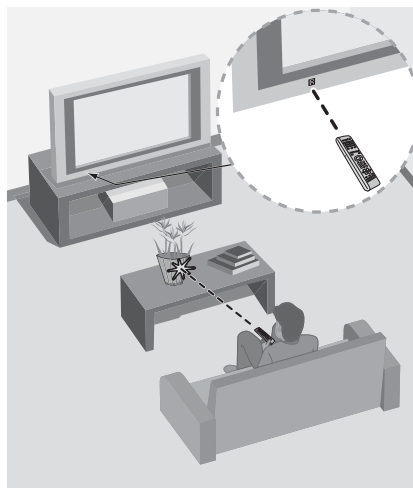### Inserting Batteries into the Remote Control

Insert two size AA batteries (supplied) by
matching ⊕ and ⊖ on the batteries to the
diagram inside the battery compartment of
the remote control.

Push to
open
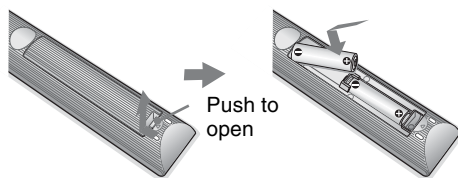
Guidelines for Remote Control

• Point your remote control directly at the IR sensor
  located on your monitor.
• Make sure that no objects are blocking the path
  between the remote control and the IR sensor on your
  monitor.
• Fluorescent lamps can interfere with your remote
  control; try turning off the fluorescent lamps.
• If you are having problems with the remote control,
  reinsert or replace your batteries and make sure that
  they are correctly inserted.
• When controlling other equipment connected to the
  media receiver, point the remote control directly at the
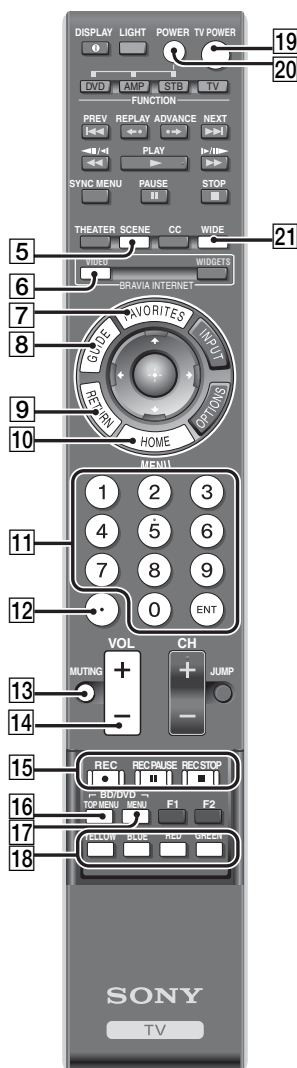 equipment to control.

Remote Control Button Description

Button	Description
1 **DISPLAY**	Press once to display information about the channel/program/input you are viewing. The information will time out in a few seconds or press again to exit. You can change the display preference, press **HOME** and go to **Preferences** to set **Info Banner** to **Small**, **Medium** or **Large**.
2 **LIGHT**	Press to light up the remote control buttons. See page 31 for additional information on the remote control backlight.
3 **FUNCTION Buttons**	The **FUNCTION** button indicator lights up momentarily when pressed to show which external equipment the remote control is operating. These buttons can be programmed to operate external equipment. You must first press one of these **FUNCTION** buttons to operate the corresponding equipment. See page 27 for "Programming the Remote Control".
4 **SYNC MENU**	The buttons listed below can operate video equipment programmed to the **DVD**, **AMP**, or **STB FUNCTION** buttons of the remote control. When the **TV FUNCTION** button is selected, the buttons can also be used to control the connected equipment with the **Control for HDMI** function (not available on all **Control for HDMI** equipment). Some other buttons on the remote control may also operate **BRAVIA**® Sync™ equipment.

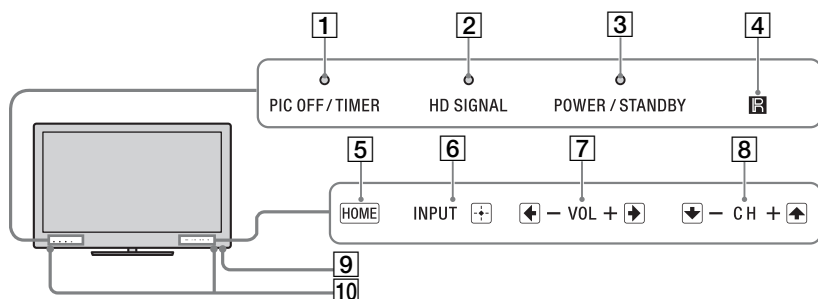|	
	I◄◄ PREV: Press to replay the current program from the previous chapter mark (if any) or from the beginning of the live TV cache. ◄• **REPLAY:** Press to replay the current program for a set period of time. •► **ADVANCE:** Press to advance forward a set period of time when playing back a recorded program. ►►I **NEXT:** Press to advance forward to the next chapter mark (if any) or to live TV when playing back a recorded program. ◄◄ **(fast reverse):** Press to play a program in fast rewind mode. ► **PLAY:** Press to play a program at a normal speed. ►► **(fast forward):** Press to play a program in fast forward mode. II **PAUSE:** Press to pause playback. ■ **STOP:** Press to stop playback. **SYNC MENU:** Press once to display the **Sync'd HDMI Devices** (while a **Control for HDMI** device is not selected). Select the HDMI device and then press **SYNC MENU** to display the menu of connected equipment (not available on all **Control for HDMI** equipment). **THEATER:** Press to turn on and off the **Theater Mode**. The picture settings will be set for a cinema-like experience and the audio will be switched to the audio output of the attached speakers of your **BRAVIA** Sync audio system. Your **BRAVIA** Sync audio system must be connected by an HDMI connection to your unit (see page 47 for details).

✍
• The **5**, **PLAY** and **CH +** buttons have a tactile dot. Use them as a reference when operating the unit.

(Continued) **23**

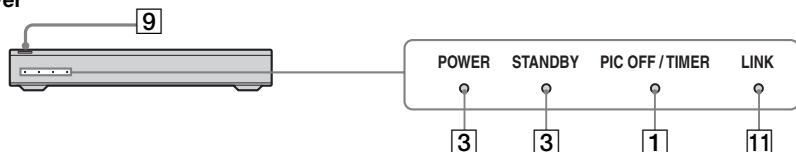| Button		Description
5	**SCENE**	Press to select the best picture and sound settings for the particular type of content you are viewing.
6	**BRAVIA INTERNET VIDEO**	Press to display the **XMB**TM with highlight on the most recently viewed Internet content provider (see page 35).
7	**FAVORITES**	Press to display **Favorites** menu. Press again to exit from the **Favorites** menu (see page 41).
8	**GUIDE**	Press to open the **TV Guide On Screen**. Press again to exit the Guide (see page 42).
9	**RETURN**	Press to go back to the previous screen or exit from the screen when displaying menu items and settings.
10	**HOME**	Press to display **TV Home Menu/XMB**TM to access unit **Settings** and other media and network related content (see page 32).
11	**0-9 ENT**	Press **0-9** to select a channel; the channel changes after two seconds. Press **ENT** to change channels immediately.
12	⊙	Use with **0-9** and **ENT** to select digital channels. For example, to enter 2.1, press ②, ⊙, ① and **ENT**.
13	**MUTING**	Press to mute the sound. Press again or press **VOL +** to restore the sound.
14	**VOL +/–**	Press to adjust the volume.
15	**DVR/VCR Record Buttons**	● **REC:** Press to start recording. II **REC PAUSE:** Press to pause recording. ■ **REC STOP:** Press to stop recording.
16	**BD/DVD TOP MENU**	Press to display the top menu of the BD/DVD disc.
17	**BD/DVD MENU**	Press to display the BD/DVD disc menu. ✍ For more information, refer to the operating manual of the connected equipment.
18	**YELLOW, BLUE, RED, GREEN**	To use with Sony Blu-ray Disc player (BD), see page 31.
19	**TV POWER**	Press to turn on and off the unit.
20	**POWER**	Press to turn on and off the external equipment selected by **FUNCTION** buttons.
21	**WIDE**	Press repeatedly to cycle through the available **Wide Mode** settings (see page 45).

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Button		Description
22	**CC**	Press to turn **Closed Captions (CC)** on, off, or automatically display CC when sound is muted.
23	**BRAVIA INTERNET WIDGETS**	Press to display the **BRAVIA** Internet Widgets. While the **BRAVIA** Internet Widgets are displayed on the screen, press again to remove the Widgets from the screen (see page 39).
24	**INPUT**	Press to display the list of inputs. Press repeatedly to toggle through the inputs (see page 44).
25	↑/↓/←/→ ⊕	Press ↑/↓/←/→ to move focus/highlight. Press ⊕ to select/confirm an item.
26	**OPTIONS**	Press to display a list of convenient functions and menu shortcuts. The **Options** menu items vary based on current input and/or content.
27	**JUMP**	Press to jump back and forth between two channels or inputs. The unit alternates between the current channel or input and the last channel or input that was selected.
28	**CH +/–**	Press to scan through channels. To scan quickly through channels, press and hold down either **+/–**.
29	**F1/F2**	Press to select the function of connected components. For details, see page 30 "Using Other Equipment with Your Remote Control".

Unit Controls and Indicators

Monitor


Media receiver

Item	Description
1 **PIC OFF/ TIMER indicator**	Lights up in orange when the **Timer** or **Sleep Timer** is set. Lights up and/or blinks in orange during a software upgrade. Lights up in green when the **Power Saving** is set to **Picture Off**.
2 **HD SIGNAL indicator**	Lights up when the unit receives HD signal including up converted signals.
3 **POWER/ STANDBY indicator**	Lights up in red when your unit is in PC power saving mode or during the software upgrade. Lights up in green when the unit is turned on. If the LED blinks in red continuously, this may indicate that the unit needs servicing (see Sony Customer Support information on the front cover).
4 **Light Sensor** **(IR) Infrared Receiver**	Senses room light level and adjusts the screen brightness accordingly. Do not put anything near the sensor or the nearby general area (as shown above), as its function may be affected. Receives IR signals from the remote control. Do not block this area, as it may interfere with remote control operation.
5 **HOME**	Press to display **TV Home Menu/XMB**TM to access unit **Settings** and other media and network related content.
6 **INPUT**	Press to display the list of inputs or confirm your selection. Press repeatedly to toggle through the inputs. • Inputs can be changed by pressing ▲/▼ and ⊕ while the list of external inputs is displayed. • See page 44 for information about setting up the external inputs labels. In the **MENU** screen, this button serves to confirm the selection or setting.
7 **– VOLUME +** ◀ ▶	Press to adjust the volume. In the **MENU** screen, these buttons serve as left/right buttons.
8 **– CHANNEL +** ▼ ▲	Press to scan through channels. To scan quickly through channels, press and hold down either **+/–**. In the **MENU** screen, these buttons serve as up/down buttons.
9 **POWER**	Press to turn on and off the unit.
10 **Speaker**	Outputs audio signal.
11 **LINK indicator**	Lights up when the wireless connection between the media receiver and monitor is stable.

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Programming the Remote Control

The remote control can be programmed to operate other equipment and is pre-programmed to operate the following Sony equipment.

Function Button	Sony Equipment	Code Number
DVD	DVD Player	31033
AMP	Receiver	52172
STB	Digital Satellite	01639

Programming Other Equipment
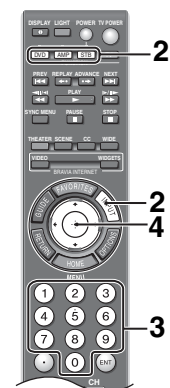
Follow the steps below to program your unit remote control.

1 Find the code that corresponds to your equipment from page 28. If more than one code is provided, try programming the first code listed.

2 Press and hold **DVD**, **AMP** or **STB** simultaneously with the **INPUT** button and release. When in the programming mode, the **FUNCTION** button blinks for approximately 30 seconds until a code is entered.

3 Enter the five digit code using **0-9** while the **FUNCTION** button is lit. If the code is not entered within 30 seconds, you must repeat step 2.

4 Press ⊕ or **ENT** to confirm the code. If successfully programmed, the **FUNCTION** button blinks twice; if not, it blinks five times.

✍

• Any of the **FUNCTION** buttons can be programmed to operate other equipment regardless of the labeling. For example, **DVD** can be programmed to operate a Blu-ray Disc player.

Confirm the Programming

If you can turn your equipment on and off using the green **POWER** button, the programming is complete. If not, try the next code listed.

✍

• In some cases, you may not be able to program your remote control. If this is the case, use your equipment's own remote control.

Manufacturer's Code List

If your equipment's code is not listed, visit **http://esupport.sony.com/remotecodes** for a more comprehensive list.

Sony Equipment Codes

Sony Equipment	Programmable Code Number
A/V Receiver	52172
Blu-ray Disc Player	41516, 42178, 42180
Cable –Digital	02177
DVD A/V System	51622, 51558, 51658, 51858
DVD Changers	31633
DVD Player	31033, 31069, 31070
DVD/HDD Combo Player	31033, 31069, 31070
DVD/VCR Combo Player	30864
DVR /HDD Player	22181, 22182, 22183
Satellite	01639
VCR	21232, 21546, 22184

Other Manufacturer Equipment Codes

HD Blu-ray Disc Players

Manufacturer	Code
LG	40741
Panasonic	41641
Philips	42084
Pioneer	40142
Samsung	40199

DVD Player

Manufacturer	Code
Coby	30778, 30852, 31077, 31086, 31107, 31165, 31177, 31351, 31628
Cyberhome	30816, 30874, 31023, 31024, 31117, 31129, 31502, 31537
GPX	30699, 30769
JVC	30558, 30623, 30867, 31164, 31550, 31602
Koss	30651, 30769, 30896, 31061, 31423
Memorex	30695, 30831, 31270

Manufacturer	Code
Panasonic	30490, 30503, 30571, 30703, 31762
Philips	30503, 30539, 30646, 30675, 31267, 31354, 32056
RCA	30522, 30571, 30717, 30790, 30822, 31022
Samsung	30490, 30573, 30744, 31044, 31075, 31470
Sylvania	30675, 31268
Toshiba	30503, 30539, 30573, 30695, 31154, 31503, 31588, 31608, 31854

DVD Changers

Manufacturer	Code
Sylvania	30675
Techwood	30692
Toshiba	30503, 31154
Yamaha	30497, 30545
Zenith	30741

DVD Recorder

Manufacturer	Code
Cyberhome	31129, 31502
JVC	31164
LG	30741
Lite-On	31158, 31416, 31440
Panasonic	30490
Philips	30646
Samsung	30490, 31470
Sylvania	30675
Toshiba	31588

DVD/VCR Combo Units

Manufacturer	Code
JVC	30867, 31164, 31550, 31602
Broksonic	30695, 31419
Panasonic	31762
Toshiba	30503, 31854
Zenith	30741, 30869

VCR's

Manufacturer	Code
Daewoo	20037, 20045, 20046, 20278, 21137
JVC	20041, 20067, 21162
Panasonic	20000, 20035, 20162, 20225, 20226, 20614, 20616, 21062, 21162, 21262
Philips	20000, 20035, 20045, 20048, 20081, 20162, 20209, 20616, 20618, 20739, 21081, 21181
Sylvania	20000, 20035, 20043, 20081, 20593, 21593

A/V Receiver/Home Theater Systems

Manufacturer	Code
Audiovox	30790, 51390
Bose	50674, 51229, 51933
Denon	50121, 51142, 51306, 51360, 52857
Emerson	50531
JVC	50331, 51495
Koss	30651
LG	51293
Onkyo	51298, 51320, 51805
Panasonic	50308, 51288, 51308, 51316, 51548, 51633, 51763, 51764
Philips	31267, 51189, 51266, 51269
Pioneer	50150, 50531, 50630, 50823, 51023, 51384
RCA	30790, 50531, 50823, 51023, 51254, 51390, 51511, 51609
Samsung	51295, 51500
Sherwood	31077, 51077, 51517, 51653
Yamaha	30497, 50176, 50354, 51023, 51276, 51331, 51376, 51815
Zenith	51293

Digital Video Recorders

Manufacturer	Code
TiVo	01442, 01443, 01444, 20618, 20636, 20739

Satellite

Manufacturer	Code
DirecTV	00099, 00247, 00392, 00566, 00639, 00749, 00819, 01076, 01108, 01109, 01142, 01377, 01392, 01414, 01442, 01442, 01443, 01444, 01609, 01639, 01640, 01749, 01856, 20739
Dish Network System	00775, 01170, 01505, 01775
Echostar	00775, 01170, 01505, 01775
Funai	01377
GE	00392, 00566
Hitachi	00749, 00819, 01250
Hughes	00749, 01142, 01443, 01444, 01749, 20739
Humax	01790, 20739, 21797, 21988
JVC	00775, 01170, 01775
LG	01226, 01414, 22010
Panasonic	00247, 00701, 20614, 20616
Philips	00099, 00722, 00749, 00775, 00819, 01076, 01142, 01749, 20618, 20739
RCA	00143, 00392, 00566, 00775, 00855, 01142, 01392, 01442, 20880
Samsung	01108, 01109, 01142, 01276, 01377, 01442, 01609, 20739
TiVo	01442, 01443, 01444, 20618, 20636, 20739

Cable Box

Manufacturer	Code
AT&T	00858, 02045
Jerrold/ General Inst./ Motorola	00003, 00276, 00476, 00810, 00858, 01187, 01254, 01376, 02045
Pace	00008, 00237, 00877, 01877
Panasonic	00000, 00008, 00107, 00144
Pioneer	00144, 00533, 00877, 01877
Scientific Atlanta	00000, 00003, 00008, 00237, 00477, 00877, 01877
Zenith	00000, 00525, 00899

29

Using Other Equipment with Your Remote Control

The table below describes the remote control commands available when external equipment is programmed to the **DVD**, **AMP**, or **STB** buttons on the unit's remote control.

Button	Action	Universal Blu-ray, HD-DVD, DVD, DVD-R, DVD/HDD, DVD/VCR	Universal VCR, DVR	Universal SAT/CBL	Universal AMP/Receiver
Access Control					
DISPLAY	Display	✓	Information	✓	✓
⊙	Select	✓	✓	✓	✓
◯	Clear (cancel)	✓	✓	N/A	✓
ENT	Enter	✓	✓	✓	✓
Shortcuts Control					
GUIDE	Guide	✓	✓	✓	✓
FAVORITES	Favorites	N/A	N/A	✓	N/A
INPUT	Input Select	✓	✓	✓	✓
RETURN	Exit	✓	✓	✓	✓
HOME	Setup Menu	✓	✓	✓	✓
OPTIONS	Options	N/A	List	List	List
TOP MENU	Top Menu/List	Top Menu	List	List	Top Menu
MENU	Menu	Menu	Menu	Menu	Menu
F1	For selecting between	HDD, DVD/HDD, DVD/VCR	VCR, VCR/DVD	N/A	N/A
F2	DVD/VCR in combo units	DVD	DVD	N/A	N/A
Equipment Control					
POWER	Turn on/off	✓	✓	✓	✓
⏮	Previous, Skip backward	✓	✓	✓	✓
⬅•	Replay	✓	✓	✓	Band
•➡	Advance, Skip	✓	✓	✓	Surround
⏭	Next, Skip forward	✓	✓	✓	✓
◀◀	Rewind	✓	✓	✓	✓
▶	Play	✓	✓	✓	✓
▶▶	Fast Forward	✓	✓	✓	✓
❚❚	Pause	✓	✓	✓	✓
■	Stop	✓	✓	✓	✓
Recording Control					
●	Record	✓	✓	✓	✓
❚❚	Record Pause	✓	✓	✓	✓
■	Stop	✓	✓	✓	✓

Button	Action	Universal Blu-ray, HD-DVD, DVD, DVD-R, DVD/HDD, DVD/VCR	Universal VCR, DVR	Universal SAT/CBL	Universal AMP/Receiver
Navigation Control					
▲/▼	Cursor up/down	✓	✓	✓	✓
◄/►	Cursor left/right	✓	✓	✓	✓
Tuning Control					
0 - 9	Digit input	✓	✓	✓	✓
CH +/–	Channel up/down	✓	✓	✓	✓
JUMP	Last channel	N/A	N/A	✓	N/A
Volume Control					
VOL +/–	Monitor volume +/–	N/A	✓	✓	AMP/RECEIVER Vol.
MUTING	Muting	N/A	N/A	N/A	✓
R/G/B/Y Control					
RED	Red	✓	N/A	✓	DVD or BD Input
GREEN	Green	✓	N/A	✓	VIDEO 1 or A/V Input
BLUE	Blue	✓	N/A	✓	SAT or Cable Input
YELLOW	Yellow	✓	N/A	✓	Media receiver or Tuner Input

Remote Control Backlight

The remote control backlight can be set to automatically light up when a button is pressed.

To set auto backlight:

Press **LIGHT** and **MUTING** simultaneously until the four **FUNCTION** buttons blink.

To turn off auto backlight:

Press **LIGHT** and **MUTING** simultaneously until the **TV FUNCTION** button blinks.

To change the backlight timeout:

1 Press **LIGHT**, **VOL +**, and **CH +** simultaneously until one of the **FUNCTION** buttons blinks.

2 Select the **FUNCTION** button that corresponds to your preferred timeout and press ⊕ .

5 seconds (default), press **DVD** button   10 seconds, press **AMP** button
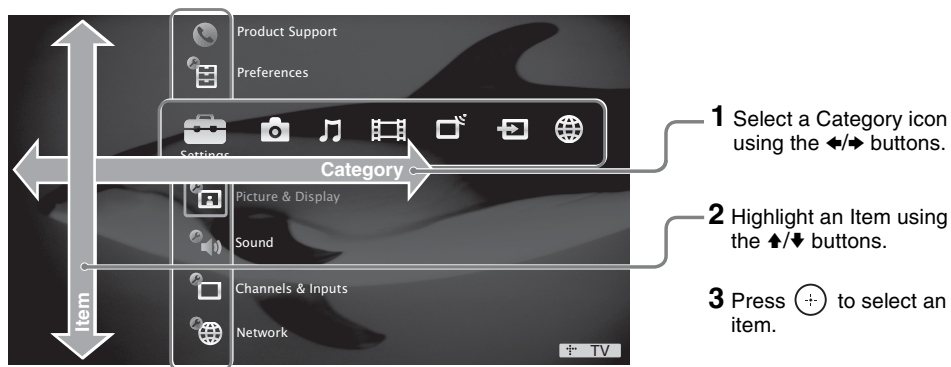15 seconds, press **STB** button   20 seconds, press **TV** button

To reset the remote control to the factory default:

Press **SCENE**, **TV POWER**, and ⊕ simultaneously. The four **FUNCTION** buttons blink when successfully reset.
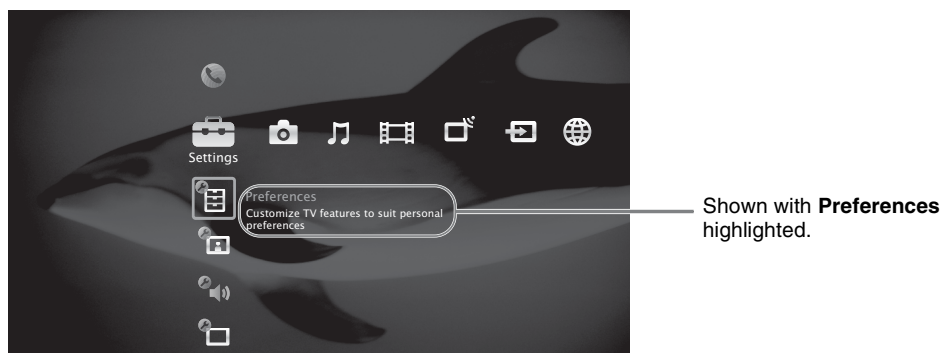
Exploring the XMB™ and TV Features

Most unit functions are available from this menu screen called the **TV Home Menu/XMB**™ (XrossMediaBar).

Press **HOME** to access the **TV Home Menu/XMB**™.

1 Select a Category icon using the ◄/► buttons.

2 Highlight an Item using the ▲/▼ buttons.

3 Press ⊕ to select an item.

The **XMB**™ displays help text that describes options available within an item.

Shown with **Preferences** highlighted.

Category Icons

The Category icons organize your unit settings and features for quick and easy access. Press ▲/▼ to highlight an item within a Category icon and then press ⊕ to make a selection.

Settings

The **Settings** icon contains all of the necessary configurations to customize your unit settings.

- **Product Support** for troubleshooting and unit software information and updates.
- **Preferences** for customizing unit settings such as Timers, Parental Lock, Language, and much more.
- **Picture & Display** for adjusting picture and display settings.
- **Sound** for adjusting sound and speaker related settings.
- **Channels & Inputs** for setting up TV channel list and external inputs.
- **Network** for setting up Network related settings.

Photo

Music

Video

The **Photo**, **Music**, and **Video** icons organize your photo, music, and video files from Internet content providers, DLNA Certified media servers, and Sony USB connected equipment. Be sure to select the correct icon when accessing files. Refer to the feature section for more information on these icons.

TV

The **TV** icon provides you access to the TV channel list. You can select the **TV Guide On Screen**® icon located at the top of the channels list from this icon.

External Inputs

The **External Inputs** icon provides access to your connected equipment, see page 16.

Network

The **Network** icon lists downloaded **BRAVIA** Internet Widgets. You can access the Widget Gallery from this icon. Refer to the feature section for more information on this icon.

Accessing Photo, Music, and Video Content

You can access a variety of Internet content by connecting to your existing home network with Internet connectivity. Your photo, music, and video files can also be accessed once you have set up a DLNA Certified equipment or after plugging in Sony USB equipment directly to your unit.

Photo　　　Music　　　Video　　　Network
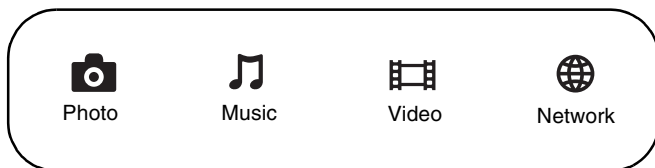
To display content under **Photo**, **Music**, **Video**, or **Network**:

1　　Press **HOME** to display the **XMB**_{TM}.

2　　Press ◄/► to highlight the **Photo**, **Music**, **Video**, or **Network** Category icon.

3　　Press ▲/▼ to highlight an item and press ⊕ to select an item.

Shown here is the **XMB**_{TM} with the **Photo** icon highlighted.

Internet content provider, page 35

DLNA Certified media server, page 36

Sony USB, page 36

Sample Images, page 36
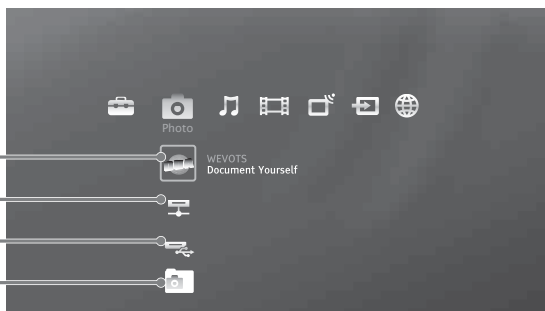
• The items displayed may vary for each category icon, your connected equipment, and the availability of Internet services.

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BRAVIA Internet Video

BRAVIA Internet Video serves as a gateway delivering select Internet content and a variety of on-demand entertainment straight to your **BRAVIA** TV.

To connect to the **BRAVIA** Internet Video service, make sure that your unit is connected to your broadband home network and that you have completed the **Initial Setup** and **Network Setup** (see page 21).
The Internet content provider icons appear under the **Photo**, **Music**, **Video**, and **Network** icons on the **XMB**™. Highlight an icon and press ⊕ to open the Internet content provider's service.

Press ▲/▼/◄/► to navigate and ⊕ to make a selection.

The look and feel of Internet content providers may vary.

Seeking Forwards and Backwards

Some Internet content providers allow you to seek forward or seek backward. Press ► or ►► to move forward in the video. Press ◄ or ◄◄ to move backward.
The **Control Panel** appears with a dot indicating the point at which the playback will resume. To resume playback, press ⊕ or ►. See the illustration below for details.
To change the speed of the seek, press the corresponding button up to three times.

Press the corresponding buttons to control playback.

Control Panel   Playback resume point   Arrows indicate speed of the seek
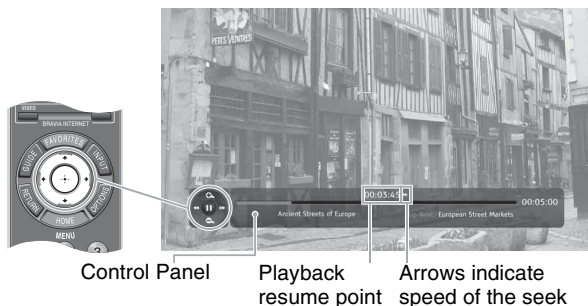
Saving to Favorites

You can save an Internet content provider to your **Favorites**; see "**Adding to Favorites**" on page 41.

- Some Internet content providers arrange videos by **Categories**; press **OPTIONS** to view more categories.
- Press **DISPLAY** to see more information on the highlighted video.
- The **Parental Lock** function set on the unit blocks video content based on the appropriate TV or Movie Rating. Refer to the online Reference Book.
- Recommended connection speed: Standard Definition video - 2.5 Mbps, High Definition video - 10 Mbps.
- To update the **BRAVIA** Internet Video content providers, select the **Network** icon from the **Settings** menu on the **XMB**™, then select **Refresh Internet Content**.

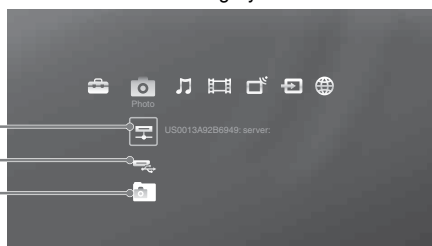**35**

Photo, Music, and Video

Media files from DLNA Certified media servers or Sony USB equipment can easily be accessed from the **Photo**, **Music**, and **Video** Category icons. For a list of supported file formats, see page 50.

Accessing Media Files

1 Press **HOME** to display the **XMB**™.

2 Select a Category icon.

3 Select a DLNA Certified media server, Sony USB or sample folder. (Pressing **OPTIONS** will display additional menu items, see "Media File Options Menu" below.)

4 Press ⊕ to select an item from the List View.

Shown with **Photo** Category icon selected.

DLNA Certified media server

USB

Samples

Shown with **Photo** USB media location selected.

List View

Media File Options Menu

Press **OPTIONS** after accessing a media file to display a list of available options such as **Playback Method**, **Start Slideshow**, **Add to Favorites**, and **Device Actions**.

The Options Menu for each Category icon and media file selected may vary.

Shown here is a photo file after pressing **OPTIONS**.

- Internet content may appear under each icon if the unit **Network Setup** has been completed (see page 21).
- Media files cannot be saved in the unit but can be added to **Favorites** and accessed when the equipment containing the media file is connected.
- See page 15 for a sample DLNA Certified equipment or page 16 for Sony USB equipment connection diagrams.

Adding Music to a Slideshow

1 Highlight the **Photo** icon. Select from your DLNA Certified media servers, Sony USB connected equipment, or the sample folder.

2 Highlight the folder to display as a slideshow, press **OPTIONS** and then select **Playback Method**.

3 Select **Slideshow Music**, then select **Browse Music**.

4 Highlight and select an item from the list of available DLNA Certified media servers, Sony USB connected equipment, or sample folder.

5 Press ♦/♠ to highlight the music file or folder you would like to add to your slideshow and select **OK**.
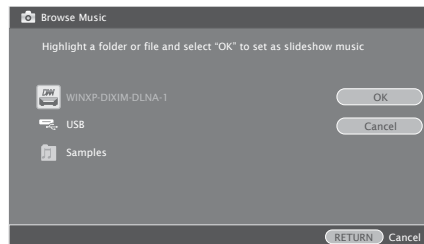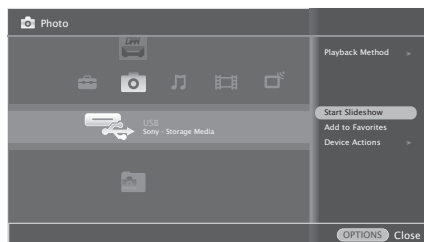
Playing Music or Video

When playing music or video files, press ⊕ to pause or play the file. Press and hold ◀ to move backward or press and hold ▶ to move forward.

Functionality of USB Equipment and DLNA Certified Media Servers

The USB functionality on this unit is compatible with most Sony brand digital cameras, MICRO VAULT USB Flash Drives, and DLNA Certified media servers but not all. Sony cannot guarantee or assure compatibility with all formats, products or in the following cases:

- Use of non-Sony brand USB equipment.
- Use of video or audio clips processed on a computer.
- Use of files obtained from the Internet or from printed film processing center.
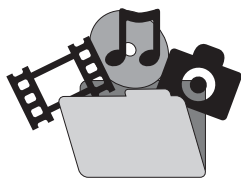
Prevent losing your files, be sure to back up all of your media files stored on USB equipment to prevent data corruption. Sony cannot accept responsibility for lost or damaged data stored on USB equipment.

Enjoying Photo, Music and Video Files on the Monitor Screen by Operating Devices–Renderer

Renderer is a feature for playing photo, music and video files stored in network devices (digital still cameras, mobile phones, etc.) on the unit by operating the controller device in question.
To use this feature, a renderer-compatible device such as a digital still camera or mobile phone is required as the controller. Also, refer to the instruction manual supplied with the controller.

1   Set **Renderer**, **Renderer Access Control** and **Renderer Options** in **Network** if necessary.

2   Play the file selected using the controller on the unit. The file is played on the unit over the connected network. Use the controller or the unit's remote control to perform operations during playback.

- For more information on this feature, refer to the online Reference Book.
- You can register the background music to be played during a slideshow using **Photo**. While playing back music, press **OPTIONS**, then select **Add for Slideshow**, or while displaying a photo, press **OPTIONS**, then select **Playback Method**.

BRAVIA Internet Widgets

The **BRAVIA** Internet Widgets are small downloadable applications that provide you access to the latest in news, weather, stocks and interactive content when your unit is connected to the Internet.

Displaying Widgets

1   Press **WIDGETS**. Minimized Widgets called Snippets will appear.

2   Press ▲/▼/◀/▶ to highlight a Snippet then press ⊕ to launch it. The Snippet will expand into a Widget.

Snippets

Widget

Footer
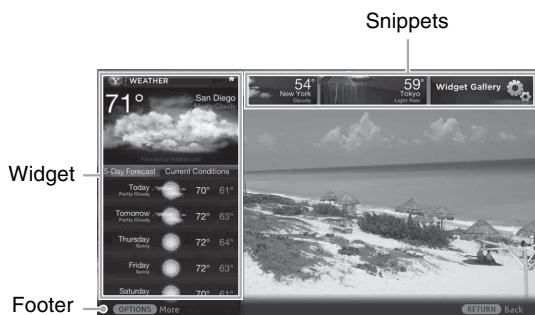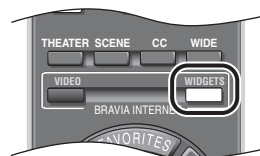
Minimizing a Widget

Press **RETURN** to minimize an expanded Widget into a Snippet or press **OPTIONS** and select **Minimize to Snippet**.

Hiding Widgets

Press **WIDGETS** or **RETURN** to hide all of the Widgets from the screen or press **OPTIONS** and select **Hide All**. To display the Widgets again, press **WIDGETS**.

Closing a Widget

Press **OPTIONS** then select **Close Widget**. When closing a Widget, all Snippets associated with the Widget will close. To relaunch the Widget, see "Launching Widgets" page 40.

Widget Gallery

Use the Widget Gallery to browse and install new Widgets. Downloaded Widgets can be launched from the **Network** Category icon of the **XMB**™, see "Launching Widgets" page 40.

- The Widget content that appears on the screen may be updated, modified or deleted at any time by the Widget provider.
- Some Widgets can be customized to your preferences such as viewing weather for your local region or viewing your preferred stocks.

Widgets Options Menu

Highlight a Widget or Snippet and press **OPTIONS** to access additional feature menu items. The menu items may vary depending on the state of the Widget/Snippet. A sample feature options menu is shown below.

Option	Description
Dock	Aligns Widgets/Snippets to the bottom of the monitor screen.
Undock	Allows you to move Widgets/Snippets to any location on the monitor screen.
Move	Allows you to move Widgets/Snippets to your preferred location.
Close Widget	Allows you to close a Widget and all associated Snippets.
Hide Widgets	Allows you to hide all Widgets/Snippets from the monitor screen.
Hide/Show Footer	Hides or shows the footer. The footer may provide additional information and may appear for an extended period of time.

Moving Snippets on the Screen

Snippets can be moved when they are undocked.

1 Highlight a Snippet, press **OPTIONS** and then select **Move**.

2 Press ▲/▼/◄/► to move the Snippet and then press ⊕ to set it in your preferred location.

Snippets in Move Mode

Launching Widgets

Hidden or closed Widgets can be launched from the **Network** Category icon of the **XMB**™.

1 Press **HOME**.

2 Highlight the **Network** Category icon.

3 Highlight a Widget and then press ⊕ .

Press **OPTIONS** while under the **Network** Category icon to access additional menu items.

Deleting Widgets

From the **Network** Category icon, highlight a Widget, press **OPTIONS** then select **Delete**.

- When downloading new Widgets, existing Widgets may need to be deleted from the **Network** Category icon if memory space has been exceeded.
- An expanded Widget cannot be moved using the remote control arrow buttons.
- Some Widgets may fill your entire monitor screen when expanded into a full view.
- Widgets available on PCs or other devices may not be available on your unit.

Favorites

With **Favorites**, you can manage your preferred **TV** channels, **External Inputs**, **Photo**, **Music**, and **Video** content from a DLNA server or USB connected equipment, **Internet Content**, **Widgets**, and **Background TV** themes for easy access.

Displaying Favorites

Press **FAVORITES**.

Saved Media Files/Folders   Recently Viewed Items   Saved Inputs
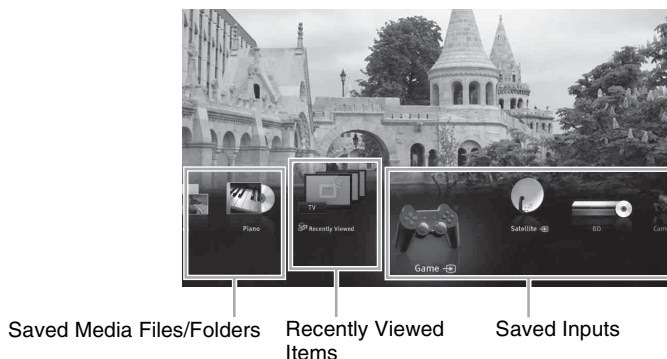
Navigating Favorites

1   Press ◀/▶ to move between saved selections in a carousel-like fashion.

2   When the Recently Viewed list is highlighted, press ▲/▼ to move between the items.

3   To tune to an item, highlight its icon and press ⊕.

Adding to Favorites

1   On the **XMB**™, highlight the icon of an item you wish to add and press **OPTIONS**.

2   Highlight **Add to Favorites** and press ⊕.

Removing from Favorites

1   In the **Favorites** screen, highlight the item to remove and press **OPTIONS**.

2   Highlight **Remove from Favorites** and press ⊕.

- To organize items saved to **Favorites** based on type (such as **TV** channels or **Photos**), press **OPTIONS** from the **Favorites** screen, select **Favorites View**, then choose **Stacked**.
- You can also add or remove an item while tuned to it, or while it is highlighted in **Favorites**. Press **OPTIONS** and select either **Add to Favorites** or **Remove from Favorites**.
- To clear your Recently Viewed items, highlight the list in **Favorites** and press **OPTIONS**, then select **Clear Recently Viewed**. Recently Viewed items are also cleared when the unit is powered off.
- **Auto Program** will clear your **TV** channels from **Favorites** (see page 21).
- **Initial Setup** will clear **Favorites** back to factory default.

TV Guide On Screen®

Use the Guide to find the program that you want to watch. The Guide allows you to organize and personalize the program listings.

The Guide is available with connection to your cable service or with over-the-air antenna signal. You must connect your signal directly to the media receiver's **CABLE/ANTENNA** input without using a cable box.

TV Guide On Screen System Elements

• Press **GUIDE** to display the **TV Guide On Screen**.
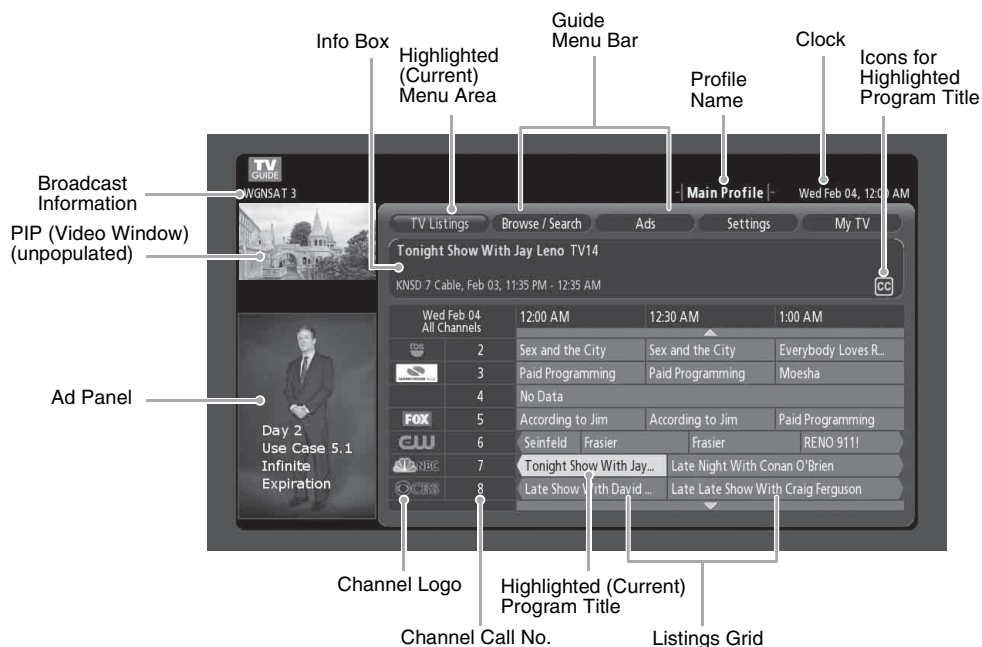
• Press **OPTIONS** to get back to the **Guide Menu Bar**. The **CH +/−** buttons can be used to page up/down through listings.

TV Listings

Up to 24 hours of program listings are available. You can also organize the program listings by categories, while TV Listings is highlighted on the Guide menu bar, press ⊕ to display a popup menu that allows you to customize the listings. For example, if you are an avid sports fan, you can customize the listings to only show sports-related channels.

Browse/Search

You can look for a program by browsing through categories or by entering a keyword or title.

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Ads

Provides advertisements from TV Guide sponsors.

Settings

Under the Settings menu, you will find the Guide information and be able to set up Guide settings or profiles: **Guide Information Screen**, **Guide Settings**, **Profile Settings**, **Reset Guide**, **Edit Channels**, **Update TV Listings**, **Select Channel Lineup**.

My TV

The **My TV** feature allows you to organize the program listings by profiles such as **Movie**, **Sport**, or **Kids**. You can also create your own profile name and organize your favorite programs or channels.

My TV
is highlighted

Info Box describes
My TV

My TV
Submenu

When you add a favorite channel using the **OPTIONS** button while watching your program, your favorite channel will be added to the **Main Profile** under **My TV**. The channels you add to **My TV** will also automatically appear as your favorite channel in the unit's **Favorites**.

To disable the Guide feature, press **HOME** then select **Preferences** menu from the **Settings** on the **XMB**™. Look for **Program Information Source** then select the **Broadcaster** option.

- Enabling the **TV Guide On Screen** feature will increase the amount of time the unit is in Download Acquisition Mode (DAM); see page 50 and 51.
- Refer to the online Reference Book for details on how to customize the Guide or create personal profiles.

Background TV

Background TV uses the current video on your unit to create images that are similar to a screen saver.

Navigating Background TV

1   Tune to a channel or input.

2   Press **OPTIONS**.

3   Highlight **Background TV** and press ⊕.

4   Highlight a theme and press ⊕. The monitor will display the current channel or input using the selected **Background TV** theme.
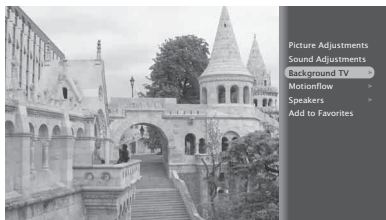
5   Press **RETURN** to exit the **Background TV** and return to the current channel or input.

✍
• **Background TV** themes may also be saved to **Favorites**, so that you can launch these themes from the **Favorites** screen.

Inputs

Press **INPUT** to display the **Input** menu and toggle through the External Inputs to select the video source. The **Input** menu consists of TV mode and other equipment connected to the TV.
You can label your External Inputs for easy identification by the connected equipment name rather than the name of the input.

How to Label an Input

1   From the **Settings** icon on the **XMB**™, select **Channels & Inputs**. Then, select **Manage Inputs**.
Press ▲/▼ to highlight the video input (Video/Component 1, Video 2, Component 2, HDMI 1-4) to which you want to assign a label, press ⊕ to select the input of your choice.

2   Press ▲/▼ to highlight one of the displayed labels corresponding to the equipment connected to that input then press ⊕ to label the equipment.

3   If you have an open input port where no equipment is connected, that input is grayed-out and skipped on the **Input** menu. You can **Enable** input ports so that they are always selectable. Refer to the online Reference Book for instructions.
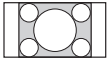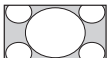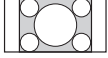
Wide Mode

The **Wide Mode** feature allows you to select the screen display of your preference. Based on the original signal source, a black frame or black bars may surround the picture.

You can manually change the **Wide Mode** setting of the monitor by pressing the **WIDE** button on your remote control. For more information on customizing **Wide Mode** settings, refer to the online Reference Book.

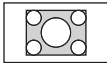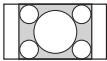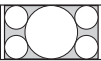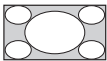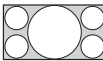### Changing the Wide Screen Mode
Press **WIDE** repeatedly to cycle through the available modes.

4:3 Original source	16:9 Original source
Standard-definition source	High-definition source
↓	↓
Wide Zoom	**Wide Zoom**
Normal	**Normal** This mode is not available.
Full	**Full**
H Stretch This mode is not available.	**H Stretch**
Zoom	**Zoom**

• **Normal** is only available with 480i or 480p sources.
• **H Stretch** is only available with 720p, 1080i, 1080p and 1080/24p sources.

Changing the Wide Screen Mode for PC Timing

Wide Mode is also available while in the PC input mode. Press **WIDE** repeatedly to cycle through the available modes while in the PC input mode.

Incoming PC signal	Incoming PC signal
800 × 600	1,280 × 768

| Normal	Normal
Full 1	**Full 1**
Full 2	**Full 2**

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BRAVIA® Sync™ with Control for HDMI

The **BRAVIA** Sync function allows this unit to communicate with other Sony equipment supporting the **Control for HDMI** function.

To connect Sony equipment with Control for HDMI

Use an HDMI cable that bears the HDMI logo for connection.
Line up the triangle on the head of the HDMI cable with the triangle on the label of the HDMI input when connecting the HDMI cable.
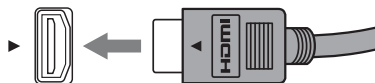
Setting the Control for HDMI

The **Control for HDMI** function must be set up in order for the unit to communicate with other **Control for HDMI** enabled equipment.
To setup the unit's **Control for HDMI**:

1 Select **Channels & Inputs** on the **Settings** menu.

2 Highlight **HDMI Settings** and press ⊕.

3 Select **Control for HDMI** and set it to **On**.

To verify connected devices, select **Device List** from the **HDMI Settings** menu.
For other equipment, refer to its operating instructions.

Available options using Control for HDMI

The following operations are available after you connect the supported Sony equipment with **Control for HDMI** function to your unit:
• Automatically turn off the connected equipment when you turn off the unit.
• The connected equipment and unit are turned on by One-Touch-Play.
• Possible operations with **SYNC MENU** buttons, see page 23.

When a Sony A/V receiver with **BRAVIA** Sync is connected, the following additional operations are possible:
• Turning on the A/V receiver when the unit is turned on.
• Automatically switching to the audio output of the A/V receiver's attached speakers.
• Adjusting the volume and muting of the A/V receiver with the unit's remote control.

Other Information

How to Care for Your BRAVIA

Safety is very important, please read and follow the safety documentation (Safety Booklet) separately provided.

Unplug the unit and other connected equipment from the wall outlet before you begin cleaning your unit.

- Wipe the LCD screen gently with a soft cloth.
- Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
- If using a chemically pretreated cloth, please follow the instruction provided on the package.
- Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
- Do not plug in the unit into the wall outlet until the moisture from cleaning has evaporated.

The monitor should also be placed on a stable surface to prevent it from toppling over (see page 18 and 19). If you have young children or pets at home, check regularly to insure the monitor is securely fastened.

Troubleshooting

Many problems with picture and sound quality are related to improper cable connection; refer to the Quick Setup Guide provided for sample connections.

Things to consider

- Check the Input selection by pressing **INPUT**. You may be watching the wrong input.
- You may have accidentally pressed the **MUTING** button on your remote control; press **MUTING** again or press **VOL +** to deactivate muting.
- The batteries may be installed incorrectly or may be low.
- An object or fluorescent light may be interfering with the remote control's operation.
- To reset the unit to factory default settings:

  1   Turn on the unit.

  2   While pressing ♠ on the Remote Control, press **POWER** on the unit. (The unit will turn itself off, then back on again.)

IMPORTANT: The reset will clear all of your customized settings including the **Parental Lock** setting.

If you have forgotten your password, enter the master password: 4357. This password clears your previous password and allows you to enter a new password.

The online Reference Book (www.sony.com/referencebook) provides additional information on troubleshooting. Contact Sony if you need further assistance.

For Customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

To prevent radio interference to the licensed service, this equipment is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

FCC Related Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

❏ Reorient or relocate the receiving antenna.

❏ Increase the separation between the equipment and receiver.

❏ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

❏ Consult the dealer or an experienced radio/TV technician for help.

Pursuant to FCC regulations, you are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

Note

This television includes a QAM demodulator which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. Availability of digital cable television programming in your area depends on the type of programming and signal provided by your cable service provider.

Compatible Wall-Mount Bracket and TV-Stand Information

Use the following Sony Wall-Mount Bracket or TV-Stand with your monitor model.

	Sony Monitor Model No.	
	KDL-46XBR10	KDL-52XBR10
Sony Wall-Mount Bracket Model No.	SU-WL700	
Sony TV-Stand Model No.	SU-FL71M	

Use with other Wall-Mount Brackets or TV-Stand may cause instability and could result in property damages or injury.

To Customers

Sufficient expertise is required for TV installations. Be sure to subcontract the installation to a Sony dealer or licensed contractor and pay adequate attention to safety during the installation.

Radio-Frequency Exposure Statement

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body (excluding extremities: hands, wrists and feet). This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Other Information

Specifications

Media receiver

Model	MBT-WZ5
System	
Television system	NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)
Channel coverage	Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69 Analog Cable: 1 - 135 / Digital Cable: 1 - 135
Input/Output jacks	
CABLE/ANTENNA	75-ohm external terminal for RF inputs
VIDEO IN 1/2	VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms
COMPONENT IN 1/2	YPBPR (Component Video): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / PB: 0.7 Vp-p, 75 ohms / PR: 0.7 Vp-p, 75 ohms / Signal format: 480i, 480p, 720p, 1080i, 1080p AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms
HDMI IN 1/2/3/4	HDMI: Video: 480i, 480p, 720p, 1080i, 1080p, 1080/24p Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital AUDIO (HDMI IN 1 only): 500 mVrms (Typical) / Impedance: 47 kilohms
AUDIO OUT	500 mVrms (typical)
DIGITAL AUDIO OUT (OPTICAL)	PCM/Dolby Digital optical signal
PC IN	D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive See the PC Input Signal Reference Chart on page 14.
PC AUDIO INPUT	Stereo mini jack, 500 mVrms, (Typical) / Impedance: 47 kilohms
USB	MPEG2, MP3, and JPEG.
DLNA	MPEG2, LPCM, MP3, and JPEG.
Power and others	
Power requirement	120 V AC, 60 Hz
Power consumption in use	30 W
in DAM*	24 W (You may hear a clicking noise during the download but this is normal.)
in standby	0.45 W
Dimensions (mm) (inches)	430 × 68 × 284 17 × 2 ^{3}/4 × 11 ^{1}/4
Mass (kg) (lb.)	4.1 9.0

* Download Acquisition Mode (DAM) is used for software updates and/or collecting data for TV Guide On Screen.

✍
• Optional accessories availability depends on its stock.
• Design and specifications are subject to change without notice.

Monitor

Model	KDL-46XBR10	KDL-52XBR10
System		
Panel system	LCD (Liquid Crystal Display) Panel	
Speaker output	10 W + 10 W	
Power and others		
Power requirement	120 V AC, 60 Hz	
Power consumption in use	198 W	218 W
in DAM*	16 W (You may hear a clicking noise during the download but this is normal.)	
in standby	0.3 W	
Screen size (inches measured diagonally)	46	52
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)	
Speaker/Full range (2) (mm) with speaker box (inches)	34×104 $1\ ^3/8 \times 4\ ^1/8$	
Tweeter (2) (mm) (inches)	18×40 $^{23}/32 \times 1\ ^5/8$	
Dimensions with stand (mm) (inches)	$1,134 \times 761 \times 319$ $44\ ^3/4 \times 30 \times 12\ ^5/8$	$1,271 \times 842 \times 319$ $50\ ^1/8 \times 33\ ^1/4 \times 12\ ^5/8$
without stand (mm) (inches)	$1,134 \times 718 \times 58$ $44\ ^3/4 \times 28\ ^3/8 \times 2\ ^3/8$	$1,271 \times 799 \times 59$ $50\ ^1/8 \times 31\ ^1/2 \times 2\ ^3/8$
wall-mount hole pattern (mm)	300×300	
wall-mount screw size (mm)	M6 (length: refer to diagram on page 8)	
Mass with stand (kg) (lb.)	26.9 59.3	32.4 71.4
without stand (kg) (lb.)	22.7 50.0	28.2 62.2
Supplied accessories	Remote control RM-YD029 (1) / Size AA batteries (2) / AC power cord (2) / Operating Instruction Manual (1) / Quick Setup Guide (1) / Warranty Card (1) / Safety and Regulatory Booklet (1) / Table-Top Stand (1) and Screws (4) / Terminal Cover (1) / Spacers (black) for Wall-Mount (4) / Spacers (silver) and Screws (M6 × 20) for Floor Stand (4)	
Optional accessories	Connecting cables / Support Belt Kit / Wall-Mount Bracket / TV-Stand: see page 49	

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Wireless system	
Transmission system	DS-SS, OFDM
Carrier frequency	2.4 GHz, 60 GHz
Transmission distance	20 inches (50 cm) to 33 feet (10 m) (depending on installation / usage)

Other Information

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For Your Convenience	
Online Reference Book:	To learn more about your unit, visit the online Reference Book at: http://www.sony.com/referencebook
Online Registration:	Be sure to register your unit. **United States** http://productregistration.sony.com **Canada** http://www.SonyStyle.ca/registration
Software Updates:	Your unit is capable of receiving software updates. For the latest information about software updates for your unit, visit: **United States** http://www.sony.com/tvsupport **Canada** http://www.sony.ca/support NOTE: If your unit is connected to the Internet, you can check for software updates by selecting **Settings**, **Product Support** and then **Software Update**.